

## CLAIMS

What is claimed is:

- 1           1. A method of providing secure content-based user experience  
2 enhancement in a player device for rendering digital content comprising:  
3           accepting encrypted digital content;  
4           decrypting the encrypted digital content into decrypted digital content;  
5           downsampling the decrypted digital content into downsampled digital  
6 content; and  
7           processing the downsampled digital content by an enhancement module  
8 to provide user experience enhancement.
- 9  
1           2. The method of claim 1, further comprising decompressing the  
2 decrypted digital content prior to downsampling.
- 3  
1           3. The method of claim 1, further comprising rendering the decrypted  
2 digital content for perception by a user.
- 3  
1           4. The method of claim 1, further comprising protecting the decrypting  
2 and downsampling actions by using tamper resistance techniques to deter  
3 unauthorized access to the decrypted digital content.
- 4  
1           5. The method of claim 1, wherein the processing comprises displaying  
2 data to enhance the user experience in perceiving the digital content based at  
3 least in part on the downsampled digital content.
- 4  
1           6. The method of claim 1, wherein the encrypted digital content  
2 comprises high fidelity digital content and the downsampled digital content  
3 comprises content at a fidelity lower than the high fidelity digital content.
- 4

1           7. The method of claim 1, wherein the encrypted digital content  
2 comprises digital audio data and the processing comprises generating a display  
3 of information for the user to enhance the user's experience in using the player  
4 device, based at least in part on downsampled digital audio data.  
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1           8. An article comprising: a storage medium having machine readable  
2 instructions stored thereon, the instructions, when executed by a processor,  
3 provide for secure content-based user experience enhancement in a player  
4 device for rendering digital content by accepting encrypted digital content,  
5 decrypting the encrypted digital content into decrypted digital content,  
6 downsampling the decrypted digital content into downsampled digital content,  
7 and processing the downsampled digital content by an enhancement module to  
8 provide user experience enhancement.  
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1           9. The article of claim 8, further comprising instructions for  
2 decompressing the decrypted digital content prior to downsampling.  
3

1           10. The article of claim 8, further comprising instructions for rendering the  
2 decrypted digital content for perception by a user.  
3

1           11. The article of claim 8, further comprising instructions for protecting the  
2 decrypting and downsampling actions by using tamper resistance techniques to  
3 deter unauthorized access to the decrypted digital content.  
4

1           12. The article of claim 8, wherein the processing instructions comprise  
2 instructions for displaying data to enhance the user experience in perceiving the  
3 digital content based at least in part on the downsampled digital content.  
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1           13. The article of claim 8, wherein the encrypted digital content comprises  
2 high fidelity digital content and the downsampled digital content comprises  
3 content at a fidelity lower than the high fidelity digital content.

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1 14. The article of claim 8, wherein the encrypted digital content comprises  
2 digital audio data and the processing instructions comprise instructions for  
3 generating a display of information for the user to enhance the user's experience  
4 in using the player device, based at least in part on downsampled digital audio  
5 data.

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1 15. A processing system providing secure content-based user  
2 experience enhancement in a player device for rendering digital content,  
3 comprising:

4 a decryption agent to accept encrypted digital content, to decrypt the  
5 encrypted digital content into decrypted digital content, and to downsample the  
6 decrypted digital content into downsampled digital content; and

7 an enhancement module to receive the downsampled digital content and  
8 to process the downsampled digital content to provide user experience  
9 enhancement.

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1 16. The system of claim 15, further comprising a decompressor module  
2 to decompress the decrypted digital content prior to downsampling.

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1 17. The system of claim 15, further comprising a renderer module to  
2 render the decrypted digital content for perception by a user.

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1 18. The system of claim 15, wherein the decryption agent is tamper  
2 resistant software to protect the decrypted digital content from unauthorized  
3 access.

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1 19. The system of claim 15, wherein the enhancement module displays  
2 data to enhance the user experience in perceiving the digital content based at  
3 least in part on the downsampled digital content.

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1           20. The system of claim 15, wherein the encrypted digital content  
2 comprises high fidelity digital content and the downsampled digital content  
3 comprises content at a fidelity lower than the high fidelity digital content.  
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1           21. The system of claim 15, wherein the encrypted digital content  
2 comprises digital audio data and the enhancement module generates a display  
3 of information for the user to enhance the user's experience in using the player  
4 device, based at least in part on downsampled digital audio data.  
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1           22. A method of providing secure content-based user experience  
2 enhancement in a player device for rendering digital content comprising:  
3           accepting encrypted high fidelity digital content and low fidelity  
4 downsampled content corresponding to the encrypted high fidelity content;  
5           decrypting the encrypted high fidelity digital content into decrypted digital  
6 content;  
7           rendering the decrypted digital content for perception by a user; and  
8           processing the low fidelity downsampled digital content by an  
9 enhancement module to provide user experience enhancement.  
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1           23. The method of claim 22, wherein the processing comprises displaying  
2 data to enhance the user experience in perceiving the rendered high fidelity  
3 digital content based at least in part on the low fidelity downsampled digital  
4 content.  
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1           24. The method of claim 22, further comprising protecting the decrypting  
2 and rendering actions by using tamper resistance techniques to deter  
3 unauthorized access to the decrypted digital content.  
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1           25. The method of claim 22, wherein the encrypted high fidelity digital  
2 content comprises digital audio data and the processing comprises generating a  
3 display of information for the user to enhance the user's experience in using the

4 player device, based at least in part on the low fidelity downsampled digital  
5 content.

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1 26. An article comprising: a storage medium having machine readable  
2 instructions stored thereon, the instructions, when executed by a processor,  
3 provide for secure content-based user experience enhancement in a player  
4 device for rendering digital content by accepting encrypted high fidelity digital  
5 content and low fidelity downsampled content corresponding to the encrypted  
6 high fidelity content, decrypting the encrypted high fidelity digital content into  
7 decrypted digital content, rendering the decrypted digital content for perception  
8 by a user, and processing the low fidelity downsampled digital content by an  
9 enhancement module to provide user experience enhancement.

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1 27. The article of claim 26, wherein the processing instructions comprise  
2 instructions for displaying data to enhance the user experience in perceiving the  
3 rendered high fidelity digital content based at least in part on the low fidelity  
4 downsampled digital content.

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1 28. The article of claim 26, further comprising instructions for protecting  
2 the decrypting and rendering actions by using tamper resistance techniques to  
3 deter unauthorized access to the decrypted digital content.

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1 29. The article of claim 26, wherein the encrypted high fidelity digital  
2 content comprises digital audio data and the processing instructions comprise  
3 instructions for generating a display of information for the user to enhance the  
4 user's experience in using the player device, based at least in part on the low  
5 fidelity downsampled digital content.

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